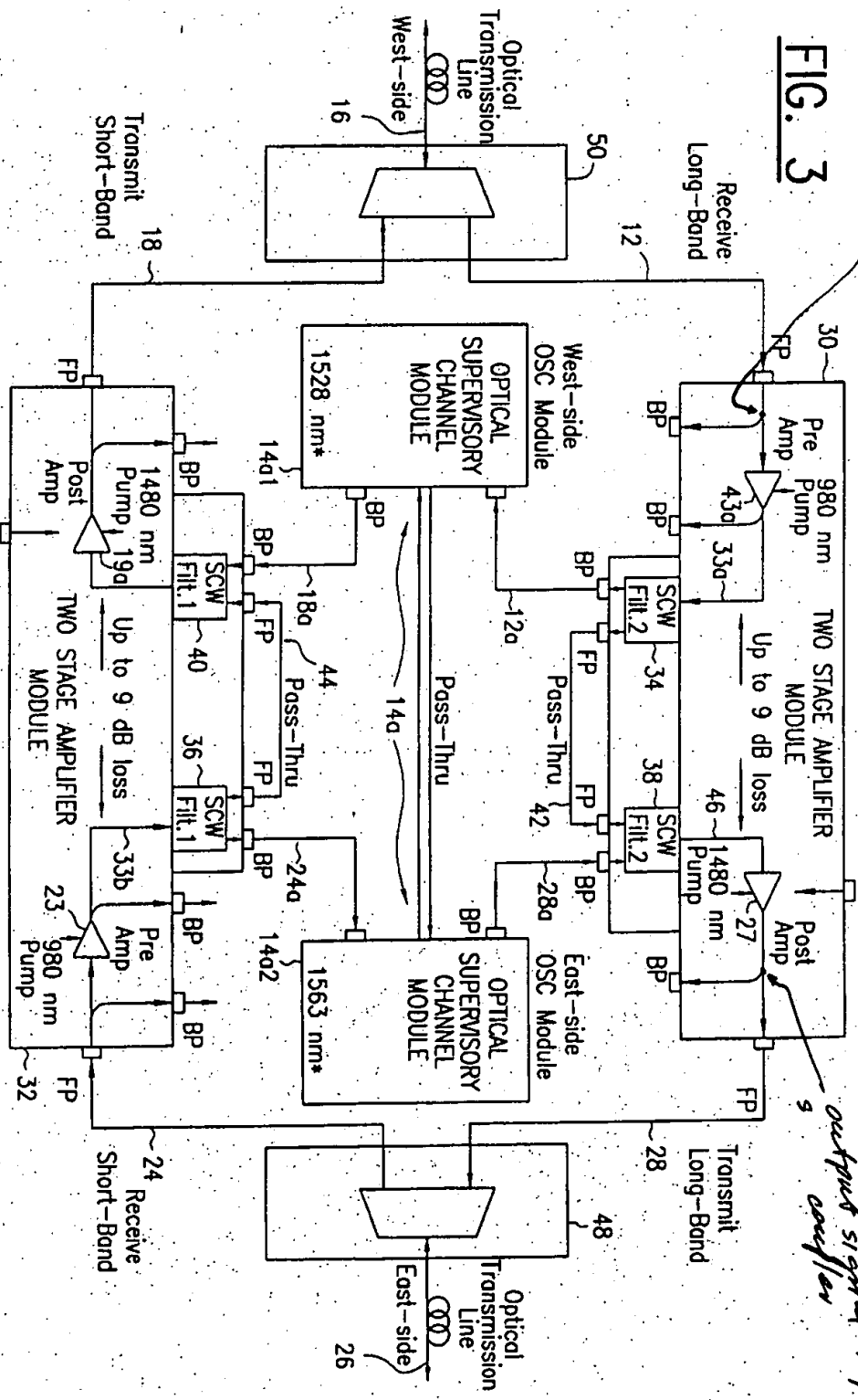


#12

Approved
5/5/02

FIG. 3



* Wavelength of the OSC is 1528 nm for combining with short-band traffic channels, and 1563 nm for combining with long-band traffic channels. SCW Filter 1 drops/adds 1528 nm, and SCW Filter 2 drops/adds 1563 nm. Thus, for bidirectional, the upper amplifier must use OSC filter 2.

FIG. 1

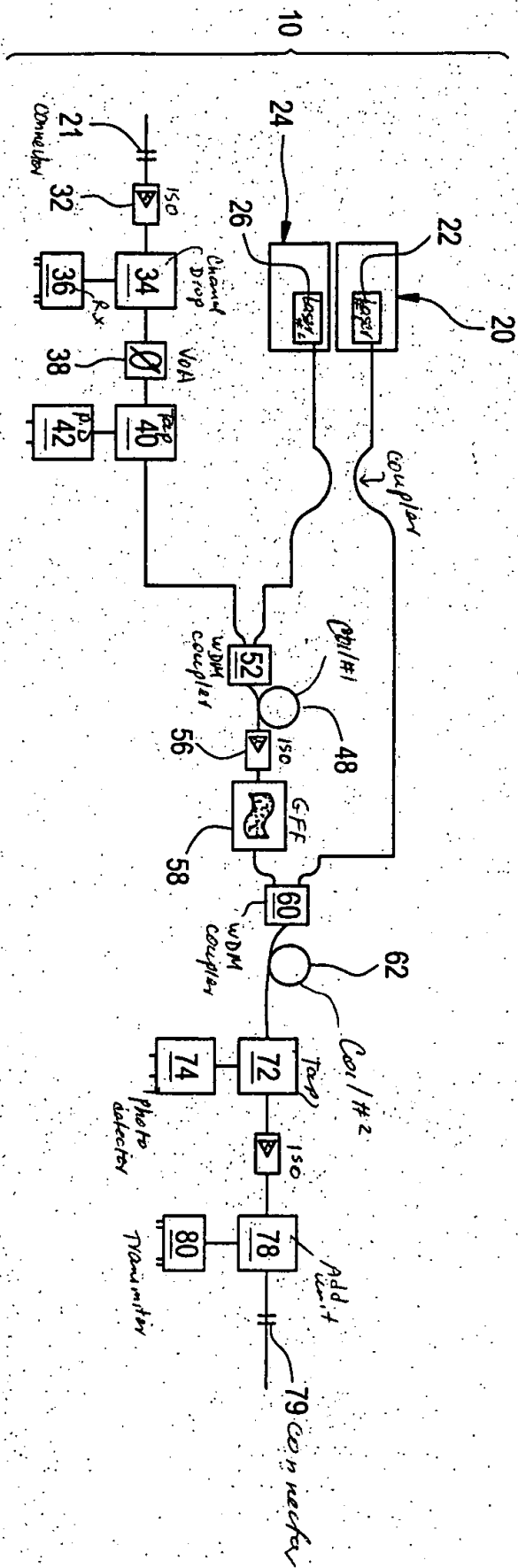


FIG. 2

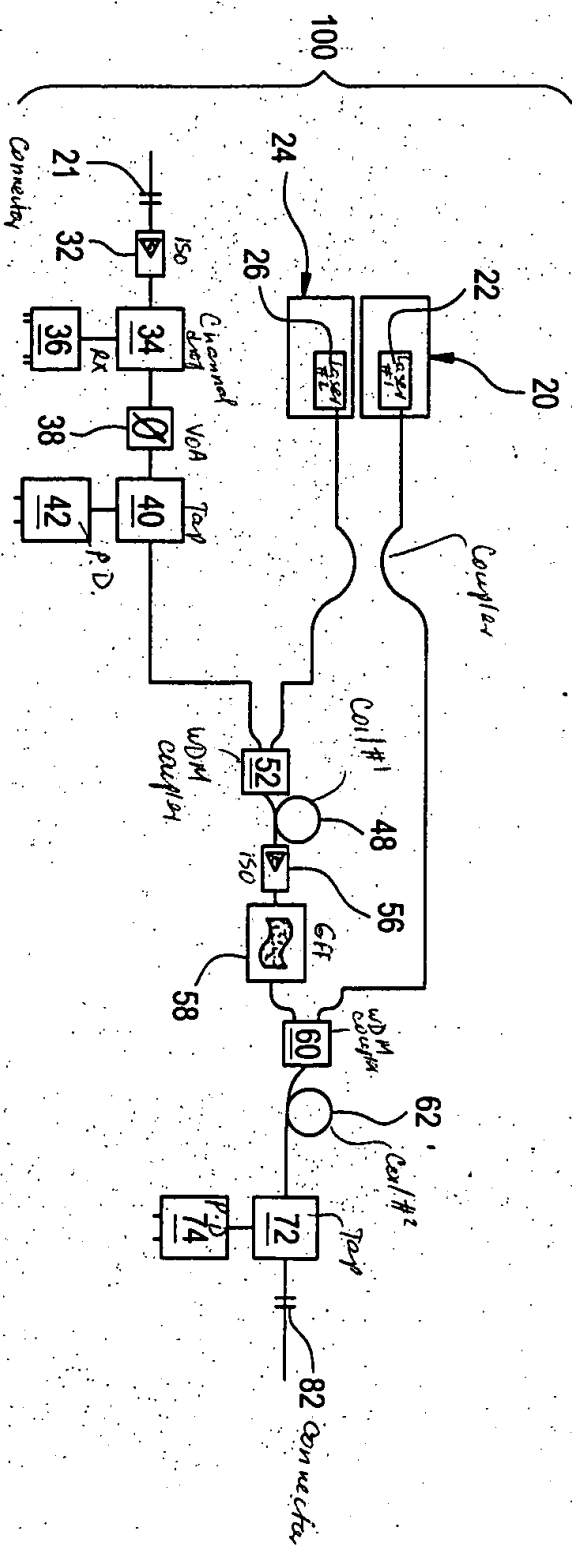


FIG. 3

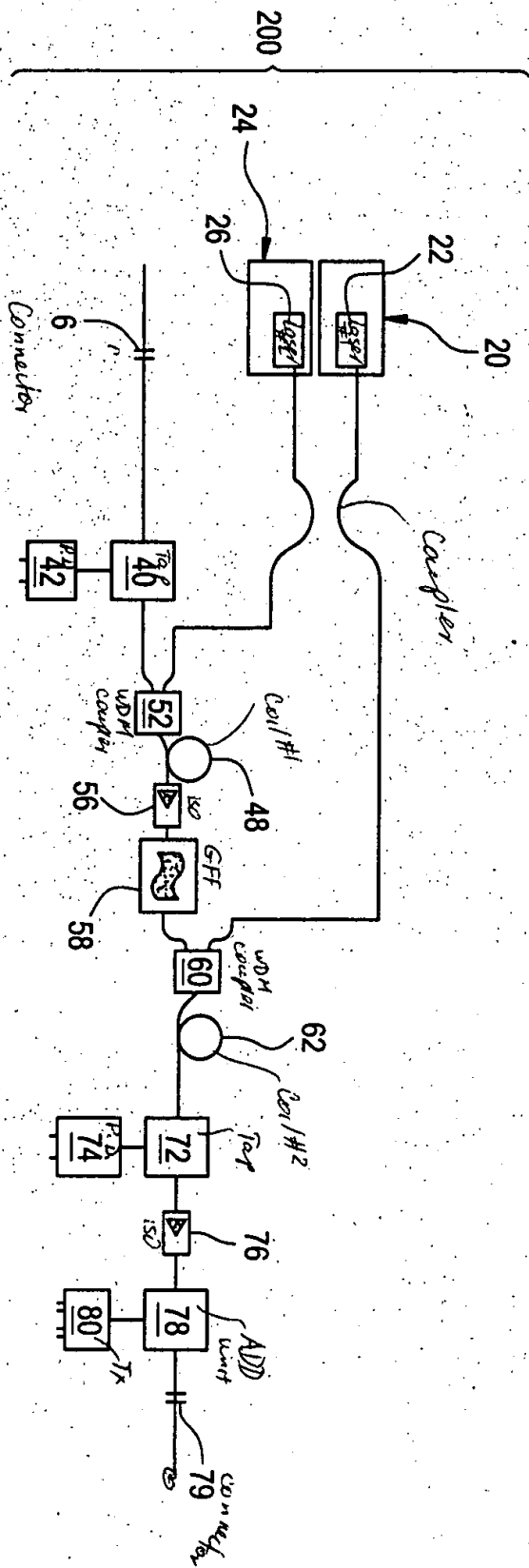


FIG. 4

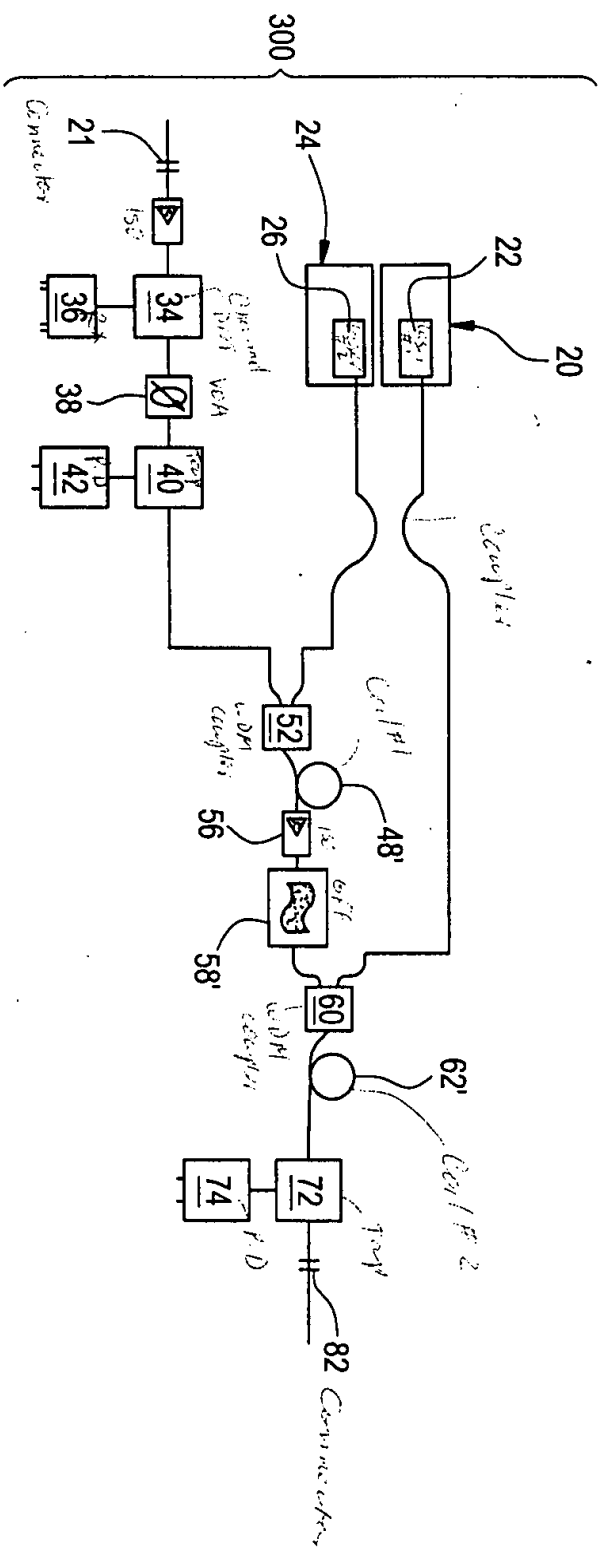
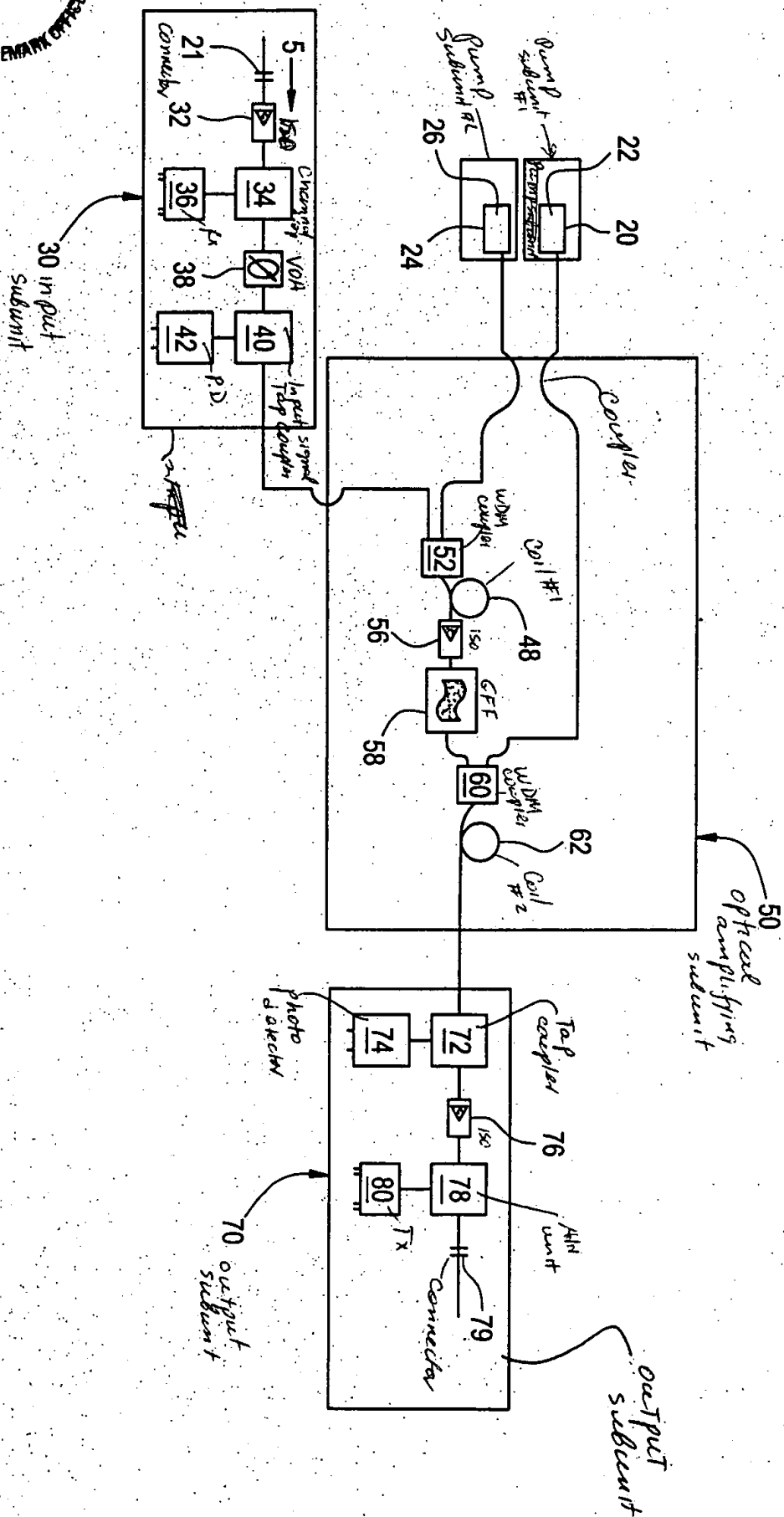


FIG. 5



500 ft. and
amplified
subsea +

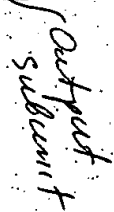


FIG. 7

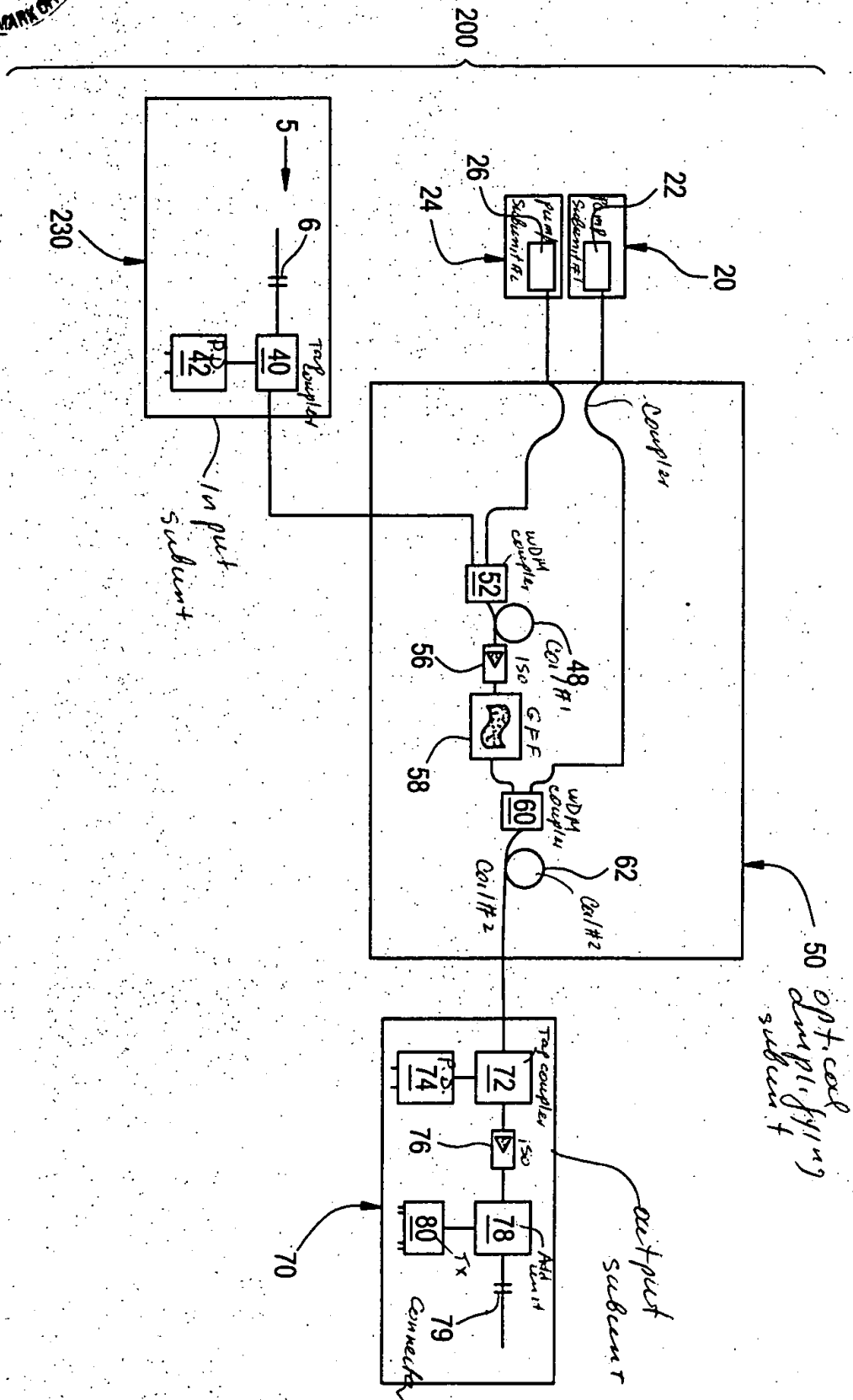


FIG. 8

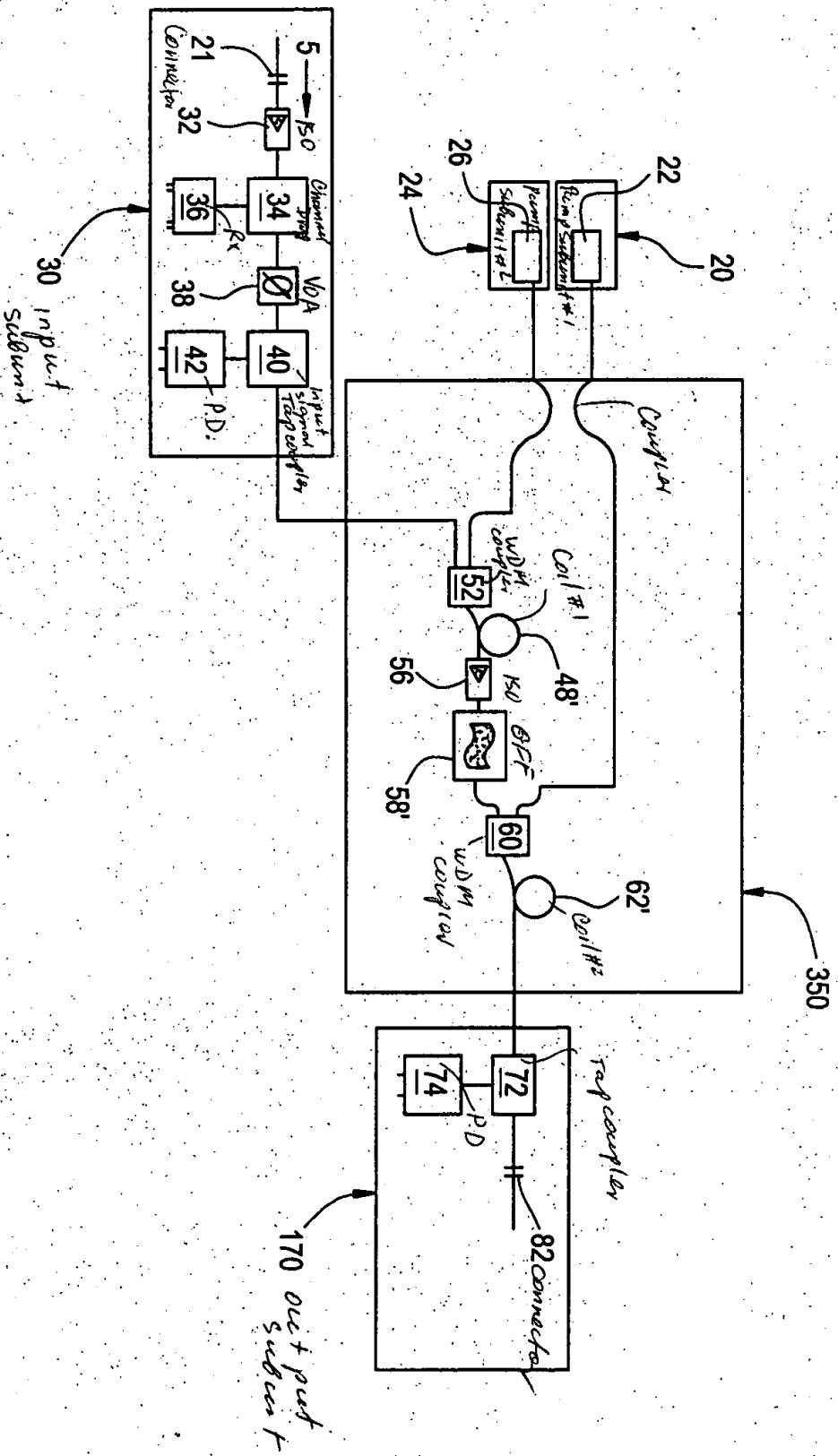


FIG. 9

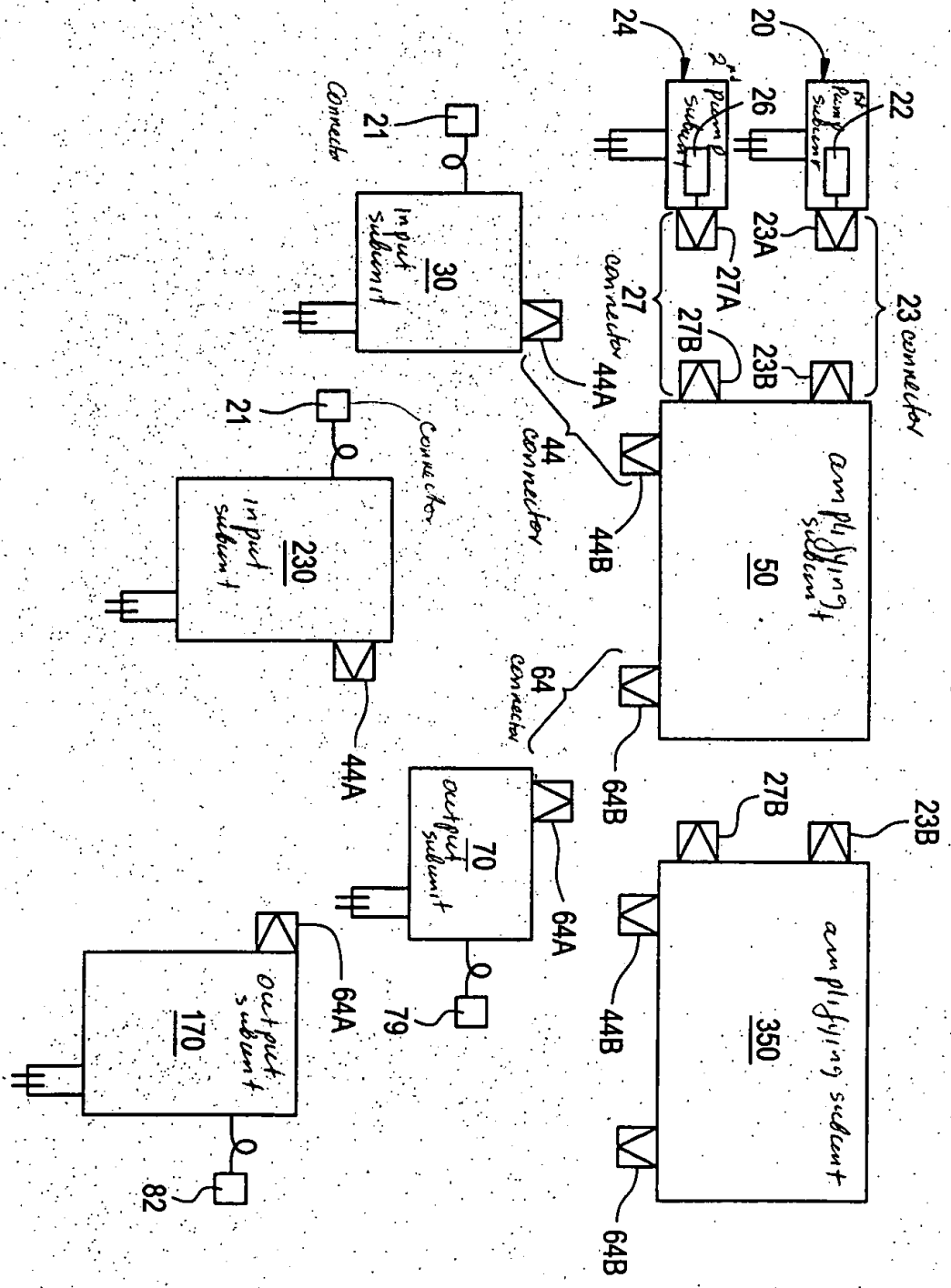


FIG. 10

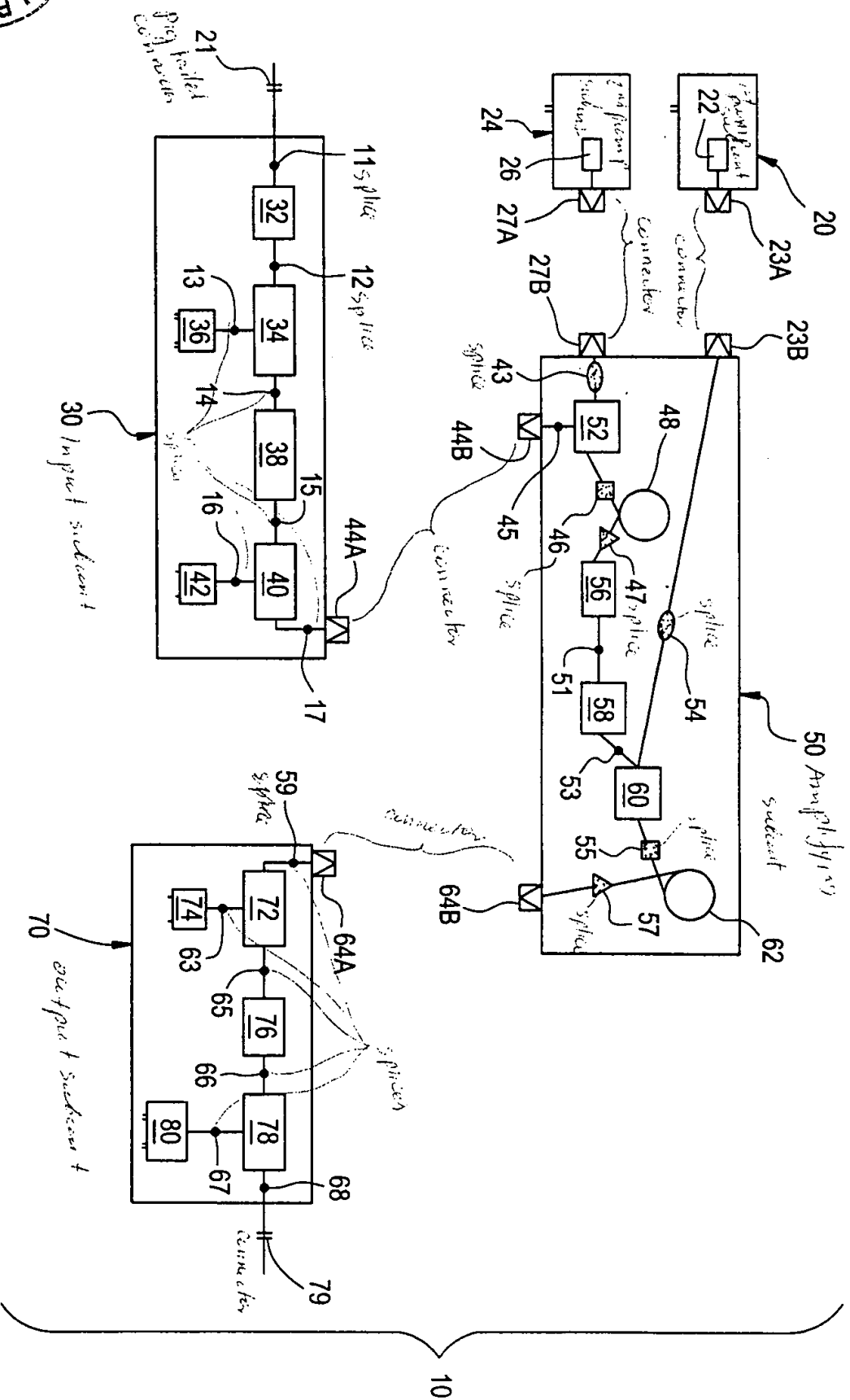


FIG. 11

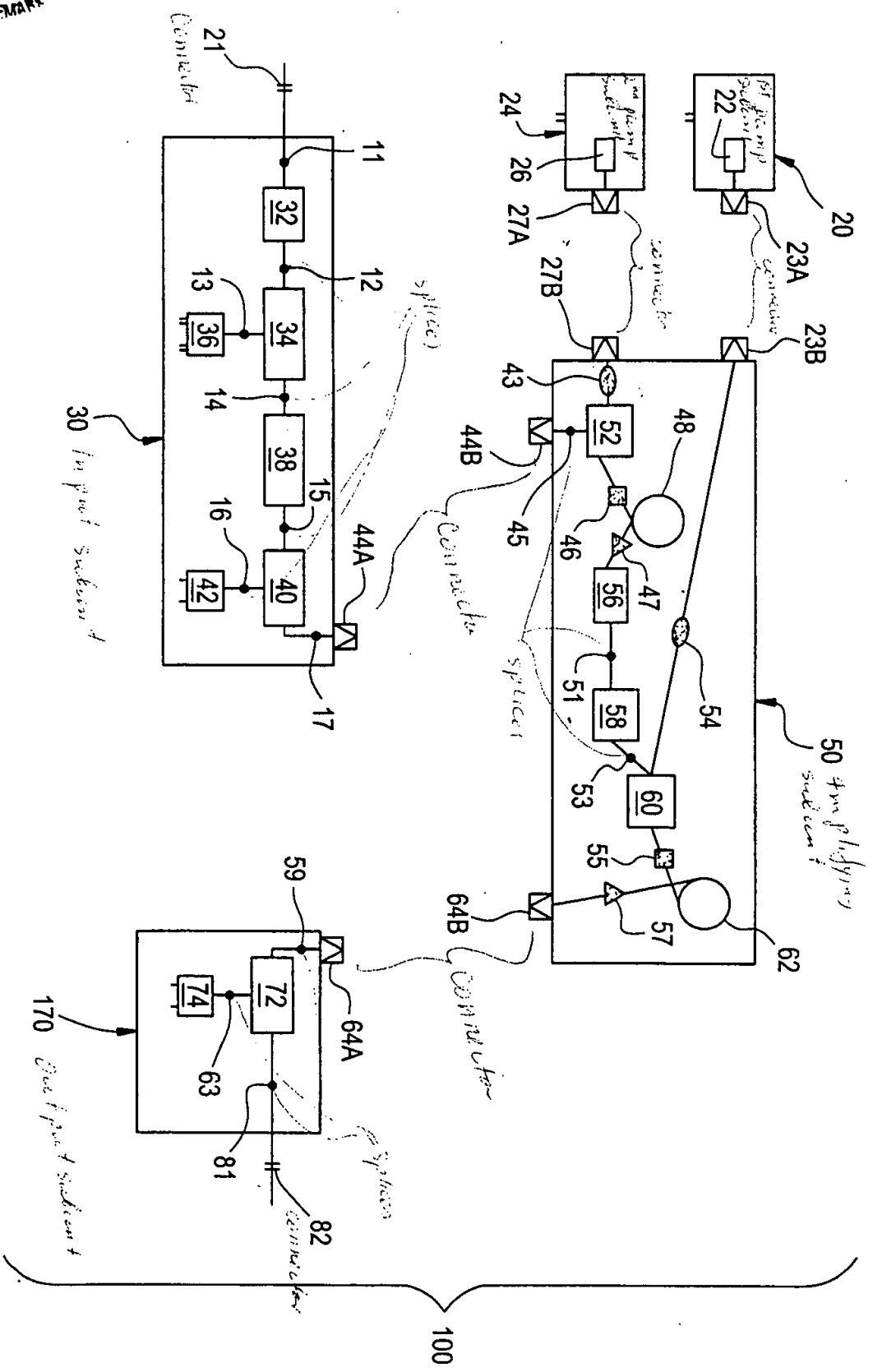


FIG. 12

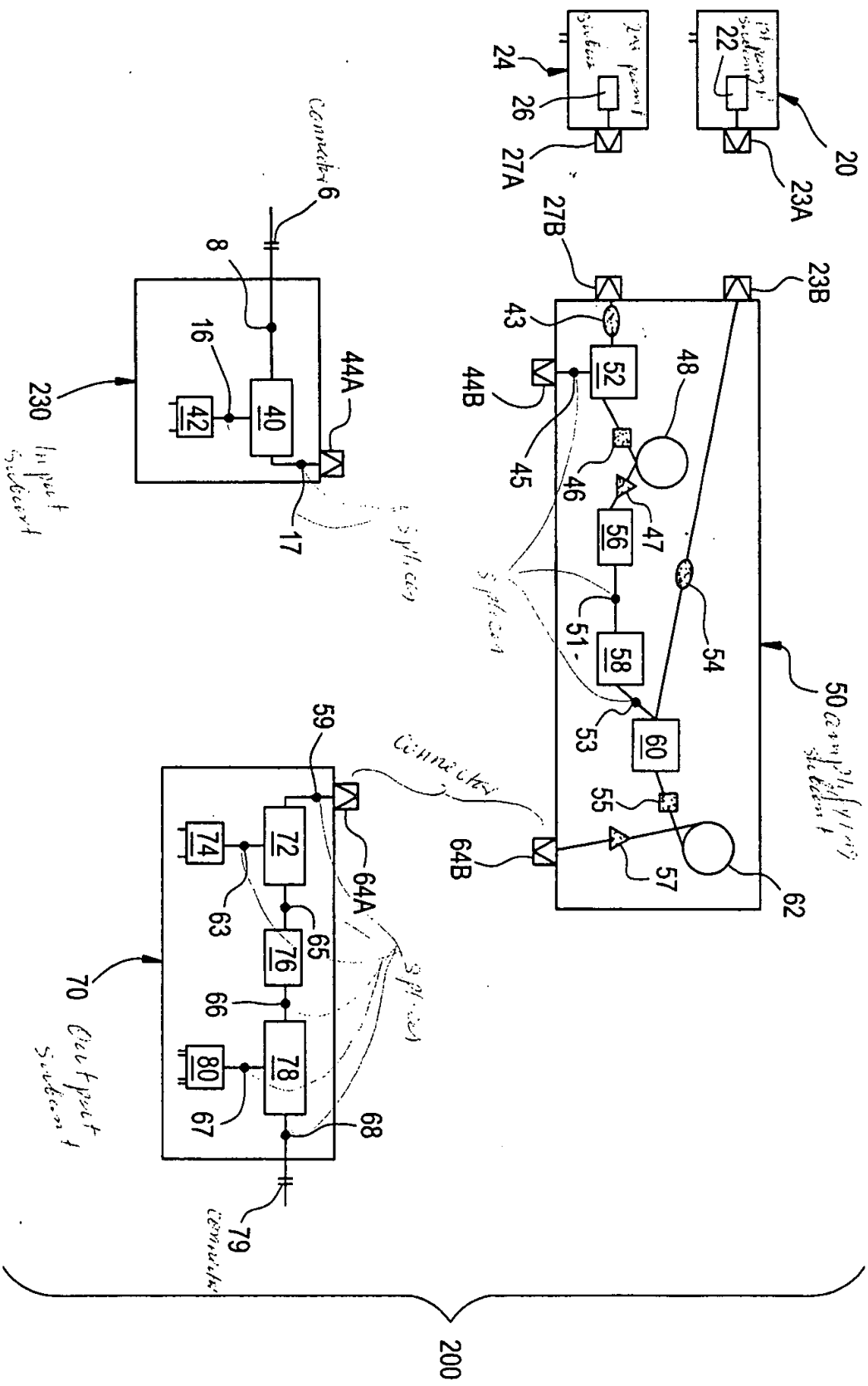


FIG. 13

